		3-202401-EZZ ► Quizzes ► 202401UECM34730E2a ► Review of preview	Update this
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		Review of preview	
		Monday, 26 February 2024, 02:47 PM Monday, 26 February 2024, 02:47 PM	
	ne taken		
	Grade	0 out of a maximum of 10 (0 %)	
2	You are	e given:	
Marks: 1		The number of claims has a Poisson distribution. Claims sizes have a Pareto distribution with $\alpha=2.5,\theta=0.5.$	
	•	The number of claims and claim sizes are independent.	
	• '	The observed pure premium should be within 5% of the expected pure premium 90% of the time.	
	Detern	nine the expected number of claims needed for full credibility	
	Answe	r:	7 x
		comment or override grade	
	Incorre Correc	ect t answer: 6494.46	
	Marks	for this submission: 0/1.	
2	You are	e given:	
rks: 1	•	The number of claims has a Poisson distribution with mean 0.012.	
	•	Claims sizes have a log normal distribution distribution with $\sigma=0.5.$	
		The number of claims and claim sizes are independent. The observed pure premium should be within 7% of the expected pure premium 99% of the time.	
	•	The observed pure premium should be within 7% of the expected pure premium 99% of the time.	
	•		
	Detern	The observed pure premium should be within 7% of the expected pure premium 99% of the time. nine the expected number of exposures needed for full credibility	7.4
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	Answe Make of Incorrect Correct	The observed pure premium should be within 7% of the expected pure premium 99% of the time. nine the expected number of exposures needed for full credibility r: comment or override grade ect t answer: 144906.6] x
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	Answe Make of Incorrect Marks	The observed pure premium should be within 7% of the expected pure premium 99% of the time. nine the expected number of exposures needed for full credibility r: comment or override grade ect t answer: 144906.6 for this submission: 0/1.] x
☞ irks: 1	Answe Make Correct Marks You are	The observed pure premium should be within 7% of the expected pure premium 99% of the time. nine the expected number of exposures needed for full credibility] x
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	Answe Make of Incorrect Marks You are of the Incorrect Marks Answee Make of Incorrect Marks	The observed pure premium should be within 7% of the expected pure premium 99% of the time. Inine the expected number of exposures needed for full credibility T: Comment or override grade act t answer: 144906.6 for this submission: 0/1. The number of claims follows a negative binomial distribution with parameters r and β = 3. Claim Size Probability 1 0.36 10 0.26 100 0.38 The number of claims is independent of the severity of claims. Inine the expected number of claims needed for aggregate losses to be within 12% of expected aggregate loser: The number of claims needed for aggregate losses to be within 12% of expected aggregate loser:	· · ·
	Answe Make of Incorrect Marks You are Determ Answe Make of Incorrect Marks	The observed pure premium should be within 7% of the expected pure premium 99% of the time. In the expected number of exposures needed for full credibility	· · ·

λ Probability 1 0.43 2 0.41 5 0.16

Marks: 1

	ollow log normal distribution with parameter μ and σ = 0.70. libility techniques are used.	
	for full credibility of aggregate loss experience is set so that the probability of observed claims being within 6.70% oms is 99%. Determine the number of claims required for full credibility	ıf
Answer:		
	nt or override grade	
Incorrect Correct answ		
5 🕏 Marks: 1	The full credibility standard for a company is set according to the methods of classical credibility so that the total within 2% of the true value with probability P. This full credibility standard is calculated to 911 claims. The standar total cost of claims is to be within 4% of the true value with probability P. The claim frequency has a Poisson distriseverity had the distribution $f(x) = \frac{(110-x)}{6050.0}, \text{ for } 0 < x < 110$ What is the expected number of claims necessary to obtain full credibility under the new standard?	d is altered so that the
	A	7
	Answer:	_ X
	Make comment or override grade Incorrect Correct answer: 341.625 Marks for this submission: 0/1.	
6 ☑ Marks: 1	Aggregate claims follows a Pareto distribution with parameters $\alpha=3$ and $\theta=5$. The full credibility standard is set of classical credibility so that actual aggregate claims are within 6% of expected aggregate claims 95% of the time of expected aggregate claims needed for full credibility	
	Answer:	□ x
	Make comment or override grade	
	Incorrect Correct answer: 8003.333333 Marks for this submission: 0/1.	
7 ♥ Marks: 1	You are given the following: • 177,500 exposures are needed for full credibility. • The 177,500 exposures standard was selected using a normal approximation so that the actual total cost of the expected total 95%; of the time. • The number of claims per exposure follows a Poisson distribution with mean m. • m was estimated from the following observed data using the maximum likelihood: Year Exposures Number of Claims 1 16,127 1,274 2 25,827 1,582 3 23,161 1,459 If mean claim severity is 1,249, determine the standard deviation of the claim severity distribution	claims is within 6.0%; of
	Answer:	7 x
	Make comment or override grade Incorrect Correct answer: 3954.167567 Marks for this submission: 0/1.	
8 🕝 Marks: 1	For a group dental plan, each individual's number of claims follows Poisson distribution with parameter λ . λ varies accordance with gamma distribution with parameter $\alpha=3, \theta_1=10$. Claim sizes follow and inverse Gaussian distribution, $\theta_2=7.6$. Classical credibility techniques are used. The standard for full credibility of aggregate loss experier probability of observed claims being within 10% of expected claims is 90%. Determine the number of claims required.	ution with parameter μ = ce is set so that the
	Answer:	□ x
	Make comment or override grade Incorrect Correct answer: 45703.338026 Marks for this submission: 0/1.	
0 🐃	For an insurance coverage you are given:	
9 쭏 Marks: 1	 For an insurance coverage you are given: Claim counts follow a Poisson distribution. Claim sizes follow an exponential distribution with mean μ. μ varies by insured according to a gamma distribution with parameters α = 6 and θ = 280. 	
	The methods of limited fluctuation credibility are used. 2000 expected claims are required for full credibility. The full credibility standard is that actual claims should be within 7% of expected claims with probability p. Determine p	

Make comment or override grade Incorrect Correct answer: 0.9596 Marks for this submission: 0/1.				
10 🗑 Marks: 1	 You are given: Claim frequency has a Poisson distribution. Claims size has a Gamma distribution with a = 2.5, θ unknown. Using the methods of classical credibility, a full credibility standard of 1050 expected claims has been established so that actual aggregate claim costs will be within 6% of expected aggregate claim costs P% of the time. Determine P			
	Answer: Make comment or override grade Incorrect Correct answer: 89.9 Marks for this submission: 0/1.			
	Marks for this saufilission. V/ 1.			

Answer:

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UECM3473-202401-EZZ